


Engineer: Chris Samios	Date: 10/6/03	 <b>JPS Communications</b> 5800 Departure Drive, Raleigh, NC 27616			
Drawn: Jack Curtis	Date: 10/7/03				
Approved: CTS	Date: 10/7/03	Title: ACU RADIO APPLICATION NOTES			
Issued/ Revised	Date: 8/3/04	Size: A	Dwg. #: <b>5961-271250-APP</b>	Rev: <b>A1</b>	Sheet: 1            Of    1

**APPLIES TO:**

Motorola GP300 Portable Radio  
Motorola HT-1225 Portable Radio  
Motorola GTX Portable Radio  
Motorola GTX LTR Portable Radio  
Motorola LTS-2000 Portable Radio

**RADIO MODIFICATIONS:**

None required.

**RADIO PROGRAMMING:**

None required.

**RADIO CONTROLS:**

1. Adjust the Volume Control until the yellow "SIGNAL" indicator on the associated DSP Module flashes with receive audio. Should be about in the mid-range (12 o'clock) position.

**CABLING:**

Standard ACU-1000 and ACU-T Interface cables are made up of a 2 foot TRP Radio Tray Interface cable and the appropriate 13-foot Extension cable.

ACU-1000 Interface Cable	JPS P/N 5961-291250	(5961-271250 + 5961-261002-00)
ACU-T Interface Cable	JPS P/N 5961-281250	(5961-271250 + 5961-281013-00)
TRP-1000 Shelf Interface Cable	JPS P/N 5961-271250	
Radio RF Connector Type		

**DSP PROGRAMMING:**

RX Level	3*	0dBm*
TX Level	6*	0dBm*
Squelch Type	VOX*	
COR Polarity	Active Low*	
High Frequency Equalizer	4*	Flat*
RX Audio Delay	2*	100 ms*
TX Audio Delay (Radio Type)	0*	No Delay*
Noise Reduction Value	0*	Off*
VOX/VMR Threshold	1*	Med1*
VOX/VMR Hang Time	3*	775 ms*
COR Inhibit After PTT	1*	100 ms*
All Others	As needed	

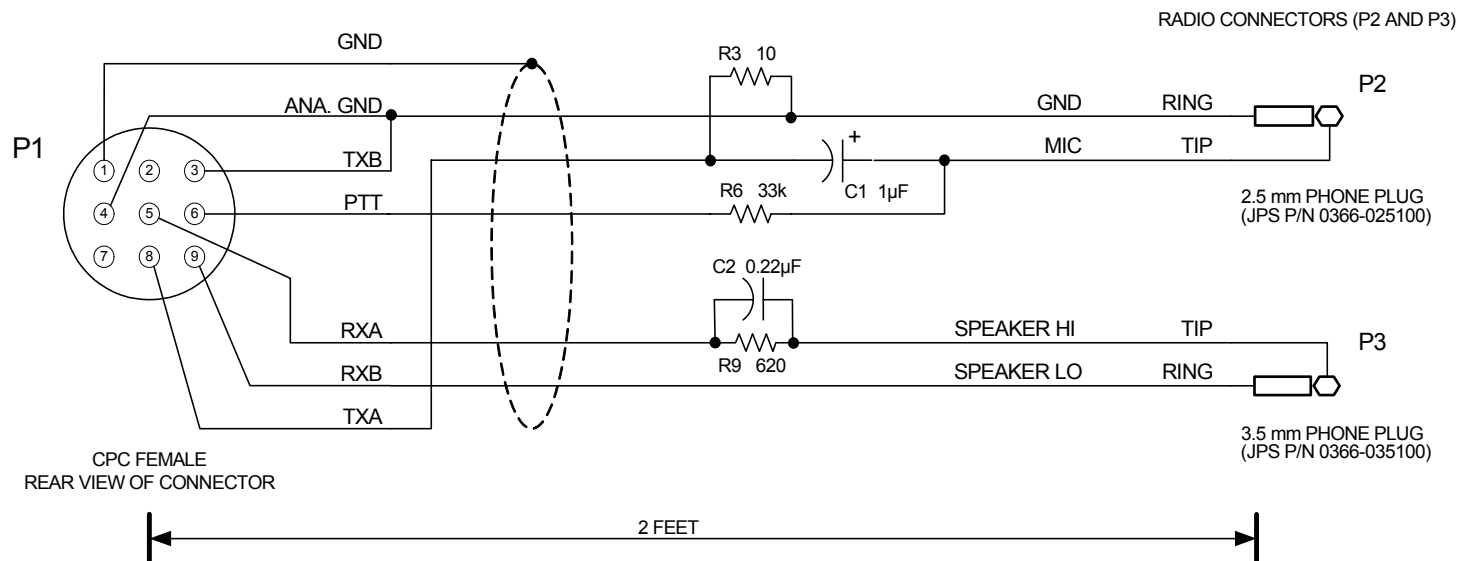
(\* Indicates Default Value)

**NOTES:**

Rev	ECO	Date
A1		7-21-04

## PURCHASED PART

USE MOLDED CABLE  
(JPS P/N 5961-261003-00)



### COMPONENT PCB (JPS P/N 5961-271000)

C1	JPS P/N 0321-010500
C2	JPS P/N 0327-226500
R3	JPS P/N 1820-100000
R6	JPS P/N 1820-333000
R9	JPS P/N 1820-621000
JU2	
JU5	

USED WITH:  
MOTOROLA GP-300 PORTABLE  
MOTOROLA HT-1225 PORTABLE  
MOTOROLA GTX PORTABLE  
MOTOROLA GTX LTR PORTABLE  
MOTOROLA LTS-2000 PORTABLE

NOTES: SHIELD DRAIN CONNECTED TO PIN 1 OF P1 ONLY.

Designed By: CTS	<b>Raytheon JPS Communications</b> Raleigh, NC USA		
Drawn By: EDV	Title CABLE, CPC TO MOTOROLA GP-300		
Checked By: JAC	Size A	Document Number <b>5961-271250</b>	Rev A1
Issued Date		NOVEMBER 7, 2003	Sheet <u>1</u> of <u>1</u>

# PURCHASED PART

Rev	ECO	Date
A		



- NOTES: 1) USE BELDEN 9934 SHIELDED CABLE.  
2) CONNECT SHIELD DRAIN TO SHELL OF P1 ONLY.  
3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.  
4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND REV, VENDOR CODE AND DATE (MM/YY).

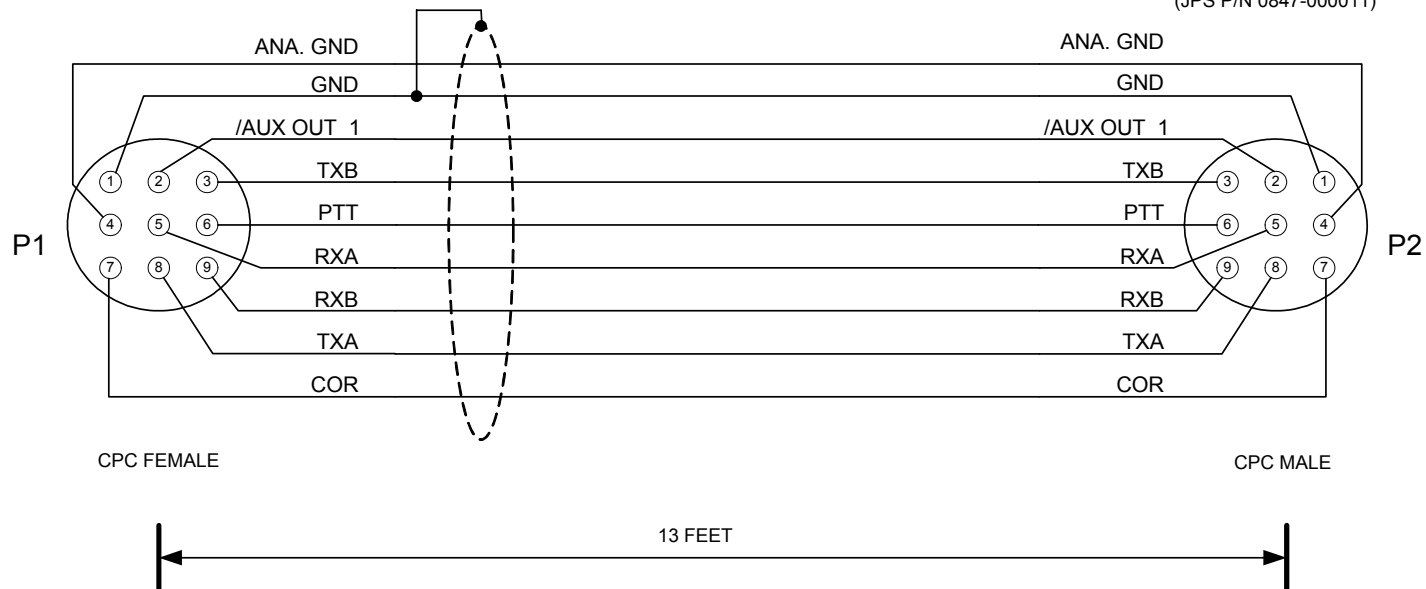
Designed By: JAC	<b>Raytheon JPS Communications</b>		
Drawn By: JAC	Title CABLE, ACU-1000 RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number <b>5961-261002-00</b>	Rev A
Issued Date JANUARY 5, 2004		Sheet <u>1</u> of <u>1</u>	

Rev	ECO	Date
A		

## PURCHASED PART

CONNECTOR AMP P/N 206708-1  
(JPS P/N 0362-005003)  
FEMALE PIN AMP P/N 1-66105-8  
(JPS P/N 0362-005002)

CONNECTOR AMP P/N 206705-4  
(JPS P/N 0362-009001)  
MALE PIN AMP P/N 1-66103-7  
(JPS P/N 0847-000011)



- NOTES: 1) USE BELDEN 9934 SHIELDED CABLE.  
2) CONNECT SHIELD DRAIN TO PIN 1 OF P1 ONLY.  
3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.  
4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND REV, VENDOR CODE AND DATE (MM/YY).

Designed By: JAC	<b>Raytheon JPS Communications</b> Raleigh, NC USA		
Drawn By: JAC	Title CABLE, ACU-T RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number <b>5961-281013-00</b>	Rev A
Issued Date JANUARY 5, 2004		Sheet <u>1</u> of <u>1</u>	